

Title (en)
MICROWAVE THERMOMETRY FOR MICROWAVE ABLATION SYSTEMS

Title (de)
MIKROWELLEN THERMOMETRIE FÜR MIKROWELLENABLATIONSSYSTEME

Title (fr)
THERMOMÉTRIE À MICROONDES DESTINÉE À DES SYSTÈMES D'ABLATION PAR MICROONDES

Publication
EP 2863824 A4 20160323 (EN)

Application
EP 13806962 A 20130621

Priority
• US 201261663099 P 20120622
• US 201361809634 P 20130408
• US 201361837633 P 20130620
• US 2013047116 W 20130621

Abstract (en)
[origin: WO2013192553A1] A microwave ablation system incorporates a microwave thermometer that couples to a microwave transmission network connecting a microwave generator to a microwave applicator to measure noise temperature. The noise temperature is processed to separate out components the noise temperature including the noise temperature of the tissue being treated and the noise temperature of the microwave transmission network. The noise temperature may be measured by a radiometer while the microwave generator is generating the microwave signal or during a period when the microwave signal is turned off. The microwave ablation system may be configured as a modular system having one or more thermometry network modules that are connectable between a microwave applicator and a microwave generator. Alternatively, the modular system includes a microwave generator, a microwave applicator, and a microwave cable that incorporate a microwave thermometry network module.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
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• See references of WO 2013192553A1

Designated contracting state (EPC)
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WO 2013192553 A1 20131227; AU 2013277996 A1 20150122; AU 2013278078 A1 20150205; AU 2013278078 B2 20170309; AU 2013278080 A1 20150205; AU 2013278080 B2 20170511; AU 2017203778 A1 20170622; CA 2877563 A1 20131227; CA 2877565 A1 20131227; CA 2877571 A1 20131227; CN 104487013 A 20150401; CN 104487013 B 20170620; CN 104507408 A 20150408; CN 104507408 B 20170620; CN 104507409 A 20150408; CN 104507409 B 20170531; EP 2863823 A1 20150429; EP 2863823 A4 20160413; EP 2863823 B1 20170816; EP 2863824 A1 20150429; EP 2863824 A4 20160323; EP 2863824 B1 20171227; EP 2863825 A1 20150429; EP 2863825 A4 20160803; EP 2863825 B1 20180221; EP 3266400 A2 20180110; EP 3266400 A3 20180425; JP 2015521497 A 20150730; JP 2015521498 A 20150730; JP 2015521741 A 20150730; JP 2018013490 A 20180125; JP 2018023831 A 20180215; JP 6231090 B2 20171115; JP 6236441 B2 20171122; JP 6242884 B2 20171206; JP 6465941 B2 20190206; US 10363095 B2 20190730; US 2013345691 A1 20131226; US 2013345692 A1 20131226; US 2013345693 A1 20131226; US 2015351839 A1 20151210; US 2016008069 A1 20160114; US 2017303998 A1 20171026; US 9121774 B2 20150901; US 9127989 B2 20150908; US 9151680 B2 20151006; US 9743986 B2 20170829; WO 2013192555 A1 20131227; WO 2013192561 A1 20131227

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